

CLAIMS

1. A motor drive device comprising: a stator core enclosing a space and being constituted by coils, which are respectively wound on stator teeth; and a motor shaft being provided in the space, equipped with a rotor magnet and rotatably held by a motor case,

wherein one end surface in the axial direction of said stator is butted against an inner wall surface of said motor case, and said stator is urged toward axially one end surface side from axially the other end surface side and fixed in said motor case by fitting a lid in an opening section of said motor case.

2. The motor drive device according to claim 1,

wherein an elastic member is sandwiched between the other end surface in the axial direction of said stator and said lid.

3. The motor drive device according to claim 1,

wherein said lid is snap-fitted in the opening section of said motor case.

4. The motor drive device according to claim 1,

wherein a brushless motor is attached to said motor case.

5. A motor drive device comprising: a motor; and a control board including a motor drive circuit,

wherein a board case, which accommodates said control board, and dampers are integrated with a motor case.

6. The motor drive device according to claim 5,

wherein said control board is attached to said board case by: piling said control board on a board receiving section in said board case; and clamping

said control board and said board receiving section, which have been piled, between the dampers.

7. The motor drive device according to claim 5,

wherein an opening section is formed from an outer mounting surface to a side surface of said board case, which is formed like a housing; said board receiving section, which forms a cavity on the outer mounting surface side in the opening section, is inwardly projected in said board case; the dampers are inserted through the opening section on the side surface side so as to clamp said control board and said board receiving section, which have been piled; and screws are inserted into axial holes of the dampers so as to fix to said motor case.

8. The motor drive device according to claim 5,

wherein said motor drive device is used for opening and closing a vehicle sun roof.

9. A motor drive device comprising: a motor; a speed reduction unit, which is linked with a motor shaft and which transmits driving torque, and a control board, which includes a motor drive circuit, being faced and attached in a board case; and a shielding member being provided between said speed reduction unit and said control board so as to separate the two in one space of said board case, said shielding member having a shaft hole, through which an output shaft of said speed reduction unit is pierced.

10. The motor drive device according to claim 9,

wherein said speed reduction unit and said shielding member, which covers said speed reduction unit, are attached to a first case; and the first case, to which said control board is attached, is integrated with a second case,

whereby said speed reduction unit and said control board are separated in one space.

11. The motor drive device according to claim 9,
wherein said shielding member is a laminated sheet-shaped member, in which a flat cloth sheet is provided on the speed reduction unit side and a plastic sheet is provided on the control board side.

12. The motor drive device according to claim 9,
wherein said motor drive device is used for opening and closing a vehicle sun roof.